



國立臺灣師範大學地理學系



YouTube



Website



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# Spatiotemporal Data Science Lab

## 時空資料科學實驗室

### Better Human Society



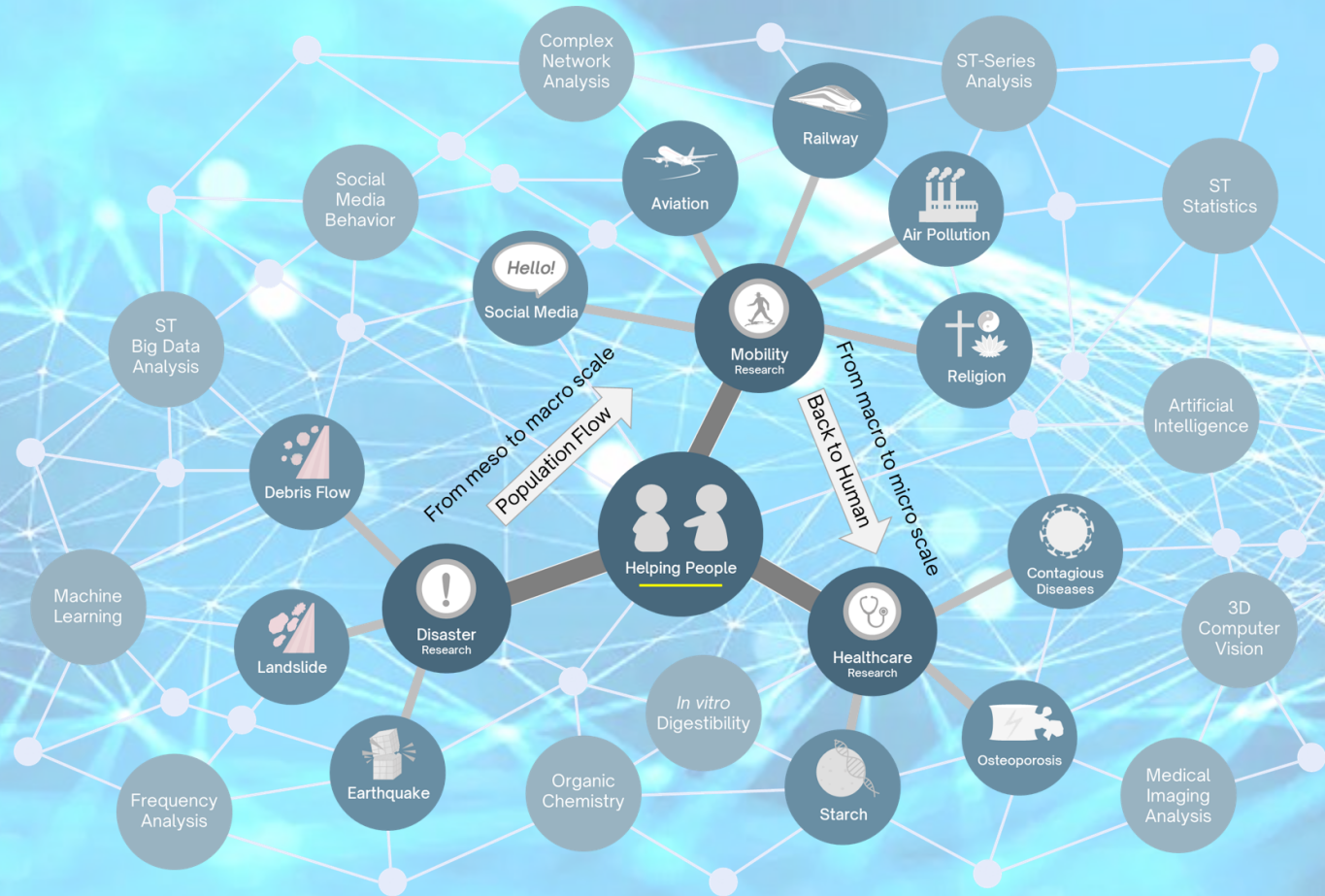
# Research Background



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Global Airline Alliance Airport Network



Timely Exposure Risk Estimation



COVID-19 Disease Transmission



Social Media Marketing



Spatiotemporal Religious Dissemination



# Current Research Focus

Spatiotemporal GeoAI  
Intelligent Urban Health  
Intelligent Transportation  
Resilient Community  
Optimization  
Complex Network



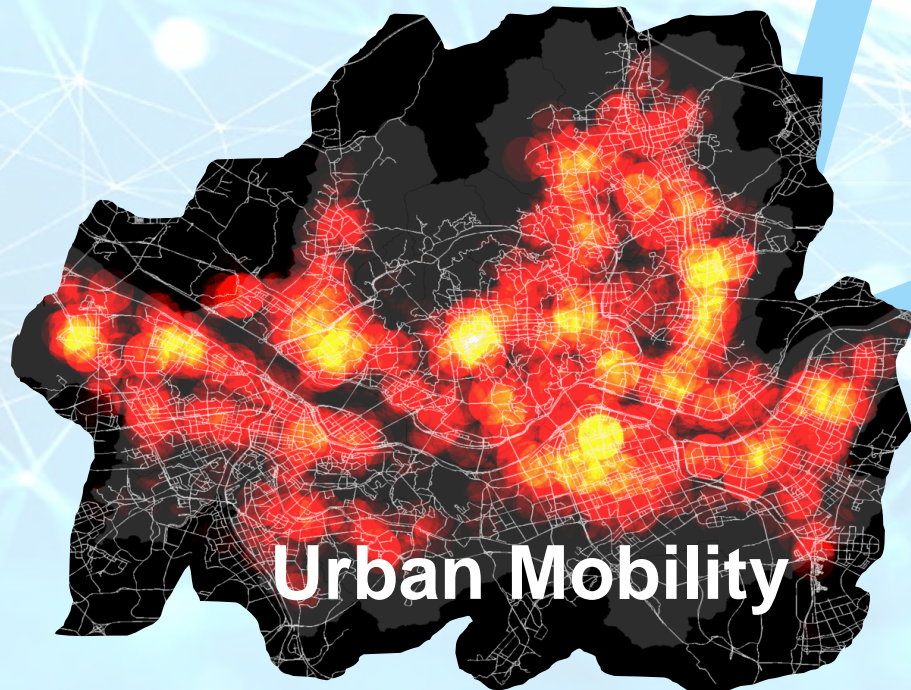
**Crisis  
RESPONSE**



YouTube



Website



**Urban Mobility**



**Mental Health**

Xgboost  
Deep Learning  
Pattern Recognition  
ANN  
Prediction  
Back Propagation  
SVM  
RNN  
GeoAI  
LSTM  
GAN  
Identification  
Feature Extraction  
GCN  
Machine Learning  
K-means  
CNN



# Applied AI Research

Our research endeavors to leverage the potential of artificial intelligence and spatiotemporal big data to advance our comprehension of cutting-edge knowledge and enhance the quality of our lives. Specifically, our focus is on developing optimization models that can facilitate stakeholders' decision-making process. Our efforts are rooted in the context of the United Nations' sustainable development goals and the principles of environmental, social, and governance (ESG) investing.



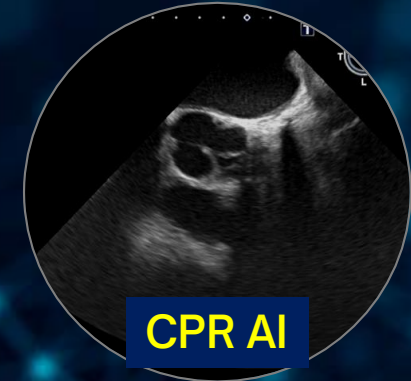
YouTube



Website



Disaster Warning AI



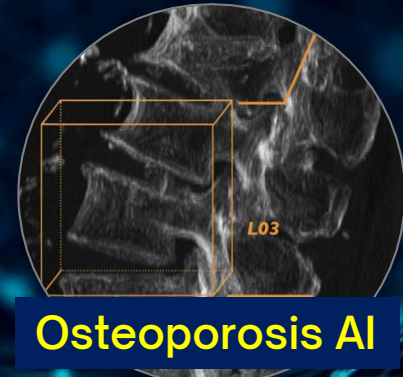
CPR AI



Heatwave Trends



Cybersecurity AI



Osteoporosis AI